Notebook, PN-10-11-01

The one dated entry in this pocket notebook is from November 1910. The book was used by Edison for notes regarding experimental work and other tasks to be performed at the laboratory. Most of the entries pertain to storage batteries and phonographs, but there are also notes about telephones, chemical researches, and various uses for the phenolic resin, condensite. The battery experiments include modifications of battery cans, trays, rubber parts, and tubes, as well as variations in electrolyte and methods of manufacture. The phonograph experiments involve the composition of phonograph record blanks, recording apparatus, and reproducers. Also included are ideas for marketing the batteries and phonographs, questions about infringement suits and patents, and data on labor. In one entry Edison plans to divide the laboratory's engineering department into several departments: "Battery -- Leland & Storage; Motors, Rectifiers; Kinetoscope; Phonoghs; Miscellaneous." In other entries he mentions the work of Leo H. Baekeland, proposes to have Paul H. Cromelin handle Edison products in Great Britain, plans to develop a $35 hornless phonograph model, decides to check on the progress of submarine batteries, and questions whether Ralph H. Beach should run his battery-powered streetcars in New Jersey. Among the employees mentioned in relation to individual experiments are Jonas W. Aylsworth, Charles Dally, Frank L. Dyer, Miller Reese Hutchison, and George F. Scull. The pages are unnumbered. Approximately 120 pages have been used. One group of pages has been detached or removed. These pages have been filmed at the end of the book.

1 Bookkeeper	50	
1 " assist	10	
1 Stenographer	18	
1 Draftsman	30	291
2 girls	18	83
1 Stores	18	374
1 Engineer	50	1496
1 Foreman	35	
1 outside	40 + 30	
1 Running	40 + 30	

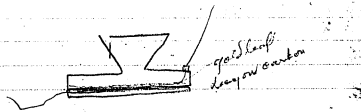
4500
1725
2775
26 | 106
2675
175

4500
1600
700

PN-10-11-01

Wax 12c	1,74 00
Cartons labelled	99 25
Sundries	12 00
Talent	1,81 09
Lecture	1,65 50
Freight	0,51 00
pkg to you	1,22 00
Adverts ?	1 52 00
Stock Rec'd	
	10.3

Nov 1 1900

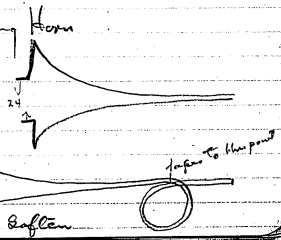


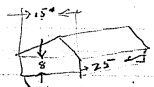
Telefon

~~Lomo all reduce 4/2 2O3 by reduction gas from phosphorus works~~

~~Ferrosilicon see of Carb purify Com 4/50% by recrystallizing from Mn + Si S etc~~

Recording Horn





Canvas house

in field for music

Look out for Vacuum filter for Petrolatum Shellac mix —

How about Corrugating bottom battery Cans —

Transfer Mina 1 M battery Stock to Central Elec Mfg —
Central E.P.W. Meet Canal Grade

Glen Ridge press Complete record
Req Vic dud stock for cover tests —

See Repairs - billed on apparatus
lows

Get from Stokes 16 rubber ready to Vulcanize into hard rubber.

After get new Spkr off a hearing aid on Try Batt in it -

Get Sales phones on My sense was attended the Electric A.A.

Dry batteries 2½X6 15@20 amp hours at 100 Milamp discharge rate -

When get Apel spkr OK for one for W-Letter M to steal record.

Patent = 15 Lac 5 Telra ½ Zn Sleeve

Dyer about having talk with Mussarman & decide things

Lawden fixe up Johnson Tuxed Lumen for House

~~How much~~

~~paid Dyer~~

Heater - design ~~test~~ RR 6 ~~cell~~ cy
Cap for temp tests
88" long 25" wide
23 deg - using blower

for Lac Tonglenum
Citronella 25c lb
Oil Camphor 11c lb
Sassafras California 30c lb
Synthetic wintergreen 35 @ 37
Rosin oil 4# cheap
Peppermint oil -
Vanillin -

Try amorphous graphite in Lac Rn

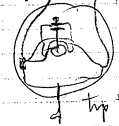
Make B4 crates right away

~~Chouteau Tract crate~~
~~bleed with dopo, take~~
~~small piece soak hot,~~
~~Try brush on etc -~~

~~Gold dust make by Rolls~~
~~some green with 1½% Ca~~
~~Ba Sr~~

~~Try asbestos in Lac a spin shell~~

~~Have Amberola supply~~
~~changed to all one center~~
~~+ tapping S. of Can~~
~~John oil from out~~



4 tap

Have Archer load tube
then Compress flake & then
screw & make another tube
see loading cost flake
for Bergman flake shipment

Wednesday 10 Miller leaves
big ~~[illegible]~~ 9
Needed

Reick 10th Med Ave
~~7 pm~~ - 7:15 pm

Earl Stone House
1/2 mile Locust
Hendelman Ave for
Bloomfield

fix up the Adult for general
delivery -

Fig up for 125 lbs Crude
Solve delivery and return to
Wonderlodge at National Pa

~~Aerson Cabs Thurs 50 60~~
~~To see if [illegible] work for~~
~~Experiment in N. Lawrence~~

Diamond point for Lee Records

Try wear test of Saphira
test on Lee records & records

Design & make such cases
standard trays - clad
special Mine Loco & RR
Inspiring Crate, & [illegible]
[illegible] Crate -

Argument - direct connection Eng + Dynamo
Costs 3 times Unit of Gatto -
yet it displeases Gatto -

Schuffel set up on
Petal Plant -

Look up alloy gauges
for fibre, see Shuttleworth Calaloque
etc.

Find out about highly accessed
Maple Lumber -
Boston probably

New Idea -
Jumptube of an alkali
as an Electrolyte for
Storage Battery - using
Manganese Tin or Fe

Permax. Use the big
Record at 160 for Equipment
Rig up new reader - also
air reader for it + go for
good beam for disc -

Drill holes in arc carbon
press buttons hydrated MnO_2
in holes, first making
buttons by hydraulic -
wrap blotting paper
over carbon & dip in with
string or paraffine if
further overall +
test -
also use MnO Mn_2O_3
as well in buttons

Wurth why so much
Ice - 3400 lbs day

Fabric-asphalt for inside
front Cam, — waterproofing
bags etc

Leaf chest Fz Bipots
4 tubes 5 grm Fz
2 grm 3 " 4 grm
KCl, in the 21 K 2 Li

ditto Fz Fz Hg
Hg

Ditto Reg Fz with 4 621 Brunile
tubes —

Fz with 4 tubes 25 K 2 Li
" 27 K 2 Li
" 21 K 2 Li 3 Zn
" 18 K 2 Li 3 NaOH.

Expt. take some green ready
to load soak in Conc H_2SO_4 —
then, rinse out & precip by KOH —
do it twice dry each time —
& finally wash well
2 tubes —

Make Ambrosia Spher
for 4 minutes only
adjust the 2 & 4 mm one
to work —

Make Model Reg Hf
& also 2 mm spheres
as models to make
others from, thoroly
test many def Rfnds
Records +.

Goldstein Hovorka NaOH 2
Cellon lot Shunto
make

Barium hypophosphite
flexible needles / at H_2O
lost at 212

Ammonio-ferrous orthophosphate
soft scales, rubbed in finger looks
like Subnit, very fine, soft.
if boiled KOH, goes to magnetic
oxide & presence of
Crystals $(NH_4)_2 Fe_2 (PO_4)_2$
$2 H_2O$

Hair Salt = Metallic Sulphate of
Aluminum also Iron alum
$Al''' Fe (SO_4)_2 12 H_2O$ - delicate
fibrous needles - Manganese
alum white silky fibrous
fine —

Try powdered gum benzoin + Rosin
mixed & heat to form
Resinate lime for records,

Ortho phenol resin

perhaps Illinoise or Cameroon + magnesium
powders + heated Combine to
Cr mixed for records.

Try Lead Salt of Sugar, Ba Salt
Mg Salt,

Bleach velvet not run to
South Orange, are concealed
runs to Milburn on summit,

Asphalt prevents Crystals of very
Crystalline acids like Chromic
work to put asphalt in recording
Cylinders to make Camorp
of Coal Mills —
Dyes dossame — ?

Reg 2 tubes 2 K 2 h 2
phosphorus acid &
2 grms Metallic aluminum
the Rhos acid takes
care of the acid –

Have Dolly put a ring in
when paper

Get the Vic Catalogue
Make Loudly & get your
Catalogue & hold Loudly
on Wm –
Dance mpeva also
Get Pirnder Catalogue

Start a 2nd & final
Model, with Motor
right & funnel 20 foot
Cut out bottom –
also a top & sound
Reg on –

Pass resolution Henry Cloudy
set nails – also compass to
large sliff to Frank & see 6
depositer of Thumb –

Take Anderson off Bass
Fagnall & put him on
Trombone – battery Crates the

Legal & Gen'l, pirated
funnel paper –

Get the Wagon Catalogue
Lifted wagon –

See Dodge standard trays
A4 3 4 5 6 7 8 8 Cells
A6 3 4 5 6
A4 3 4 5 –
RR Battery box + B boxes

Gwa Dyes Coat Victor Dye
Material for Baekeland.

Wally Arabesque
by Lack

trouble in [illegible] would be large - smaller
[illegible] hole & part paleche
[illegible] cat & [illegible]
part shined go. [illegible]
probably cat & [illegible]
[illegible]

Weight out lots of Tabor [illegible]
in clean room & Try for
a liquid chang to take
place Dichlorohydrin -

4th Lac Substitute - Spin with
asbestos.

5369-9- 1690 before at 75
1390 at 42°

Jenny Spec Dodge

Ser of can melt Shellac in
glycerine, - Monochlorop
& other liquids that
wont soften by heat being
already in liquid -
Dont use Tolra,

Try procaleum saturated
with, Barylahydrox, $SrOH_2$
MgO ZnO, PbO
MnO, Alhydrox $Ca(OH)_2$
KCy - Boil phenol out
Try all the oxides
& hydroxides - sulfides -

Possibly 9/12 Rum Pb0
+ a reducing agent which
may finally succeed & and
+ toughen it — possibly rum
itself reduces the lead
of Pecan by common process
which [illegible] with it —

Complex of phenol oxyn mol prop
Combines Try 4-6 or formulas

Have Gelatin figure out
Fowlers paper on our cell
Nov 10 Chem Abstracts

Johns Oil Stove Cutting & follow
Obliterate announcement
on Records —

See Bachman about
Heavy Lighting Battery
auto trouble

Holland Tech created A-6
as now, then wet down
again & dried,

Just was Enough pour
Tetra Lead Calcium for
a Complete Take over
Uses — Dually make —
also some with more calcium
less Tetra —
15 + 4 — 12 —
15 + 5 12 + 15 chalk
15 + 5 12 + 20 "

Special Goodrum about
Parlan Clarion Pa
Clarion Pa
Wagon preparation —

Also Walker Furnace in
selling attachments about
the scheme on wagon —

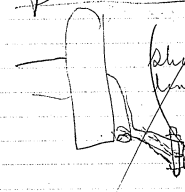
See what I can get a small orchestra for for 3 or 4 hours dance, something bearable

Desirability of circular to all dealers giving substance of second wagon experiment

See if Can get 100 from all the def stales from pipe line leaders to test for gold —

Find out from Lee when Hanna & Co battery run 25000 miles want put in necessary & test for Adv in several cities —

Pressure have Cook fix up Reg Rippler with heavy extra spring & has not under much of my tension like I took scratch out of ~~phone~~ chalk telefone —



Shows bra dalled line not as now

NWA — Use Vac on mouth. Must jump or MNH & absorb by 4,504 — or steam & condense

Adm Jr

See if Sulphur in the tobacco
hurts humidor of Carbunculum gun

See down stairs if Carbuncula
Mixture with tobacco —
to Contract it — Olea Steam Ro
Rosm oil, Oil Camphor, amber, phenol.

Try less Asbestos in tobacco
to prevent Carbunculum —

Try without asbestos —

Try gum Resin Tobacco Asbestos

form some Mixture
217 30 33. Cold then
use (5 grms) with 24 tubes
dose if 1st dont permanently
run higher —

Clocher Mixture 2 Inch
5 gm Tr. charge them again
Nistrip 24 hours

In 20 NaOH. 25 NaOH 30
NaOH,
also Saturated LiOH —
also mix of 21 K 6 Li 10 NaOH,
put in Rus Reg 21 K 2 Li

Lady Dow - Soprano & Male
Voices,

Clay - dry. coal dust fine
Quarty sand, some paper fibre fine -
Coarse sand - about 1 gallon
put in bag & knock to decent
goes under wire and upset some
on top. Coarse sand thrown in,
on bally - 6 drops wet with
KOH Inch tube, test Tobacco
tube. Color improved put
Current on Continuously
3 days, then take off wet
& next Day put Current on
& go on for long test.
Bally Created in Chemistry

Design new pake etc A 8
" " E 8
C 12
C 16

also Subnormal C 8

gura, cubert ex Record Dia marked hand stuff on days having on 25 lot runs - Jack gura Vic Stuff 19 - prepare total no fond. so on hand base -

Schiffels get Model 3 1/2 cy

Effect [illegible] on design

Due to the tests for Spanbow [illegible] Wash [illegible] the new [illegible]

Bypr - about desirability of making no double face records & lowest price $1. 60% off. -
Can buy out double face letter

Take several Reg Tuber Reg Ra after 50 Runs - take out grain treat gypsum slip wash dry & make up new liter - 2 liters Run Reg 2 run 7 h. 21K 3 times, 2 supply out put on 21K 2 h. grain heat -

Holland Hon about Hanging in Carbonnade -

Schuffel - all Handles must be detachable Lake Orange

Cost LiOH anhydrous

Li_2CO_3	500	9350 lbs	$ 4.675.00
CaO	031	8150 "	252 65
H_2O	01 gal	124000 gal	1240 00
Coal	2.30 Ton	78.5 Ton	171 00
Labor	$200 day	6 months	288 00
"	800 week	6 "	192 00
			$ 6.818.65

5775 - 100% LiOH. 1.18 Lb -

Could pay 850 for 100 Cryolite LiOH

Sec Pickman up the deep
tracking Records of was brought
over —

	Number
25 Waltz	15
8 Polkas	4
6 Mazurkas	4
5 Schottisches	3
12 Marches	8
18 Overtures	12
5 Barcarolles	2
20 General instrumental	12
25 Duets, Trios, Quartettes	15
25 Single Songs	13
15 Solos	8
10 Dances	10.
10 Piano	6
184	111

~~Sock tube (not (150 feet) Cong
Sol L.O.H., for 3 or 4 hours then
pour out + put — 21 K 2 L 4
quickly put on chop~~

Pacy orchestra $2 hour per man
Leader $4. $34 per hour for
16 men — Can make 3
in 4 hours —

Band same rate, 20 men
& Leader —

Margaret Sylvia $333. per song
+ 10% Royalty — on list price
10c Record.

Carmen Melba — 600 song
15% on 75 cent price —

Records for credits may be given for premiums for allocations + sales. Thresh them out
Instead chopping both with credit received they may be held & chopped twice year, - Cleaning the well check & we might have traveling man to check — Thresh them out,

John will make break wheel so it chips & then keep a Contract for dressing 1/2 the chips size. —

Archer 2 tubes 36% chips
3 times then supply out put in
21 2 Li — ditto B. 12 1/2 .
2 tubes
ditto both 33 NaOH,

ditto soak in hot conc BaOH,
do SrOH then transfer to
33% KOH, Cold run 3 times
supply out ~~out~~ put in 21 K 2 Li
Both Reg & B.'

ditto NaOH 33 -
ditto soak both Reg m + B. M
in Conc hot LiOH, change to
33% K saturated LiOH, run 3 times
Change to 7 K 2 Li
ditto MgOH 33% —

RC - makes double sulfate Fe + Co
ditto Fe + Sb ditto Fe + Ni.
Fe + Cd. equals + redium for test

drop with these as 25% of chloride
sulfates are in - ditto 50%

John will + Lay out 5 drapm
Recorder —

Pierman get glass funnels —

Chlorate or
Dry Perchlorate in Cells -
Na. K. Li = book 1st =

Singleton W Davis 854 E 54th
St Los Angeles Cal
Send "Future Life"
and all the Empires of the
Humanitarian Revision up to date,
Send $ 8.75

75c

Dealer Ambrol 30c Bleg 3 1/3
Jobber " 20 " 5 1/2 -

Get an old flat record Model
to plate on - put L on it.

Plate over a 4" deep plate
with Ni - polish, then plate
Co or Fe + reduce to Cu plate
Copper 1/4/1000 - strip +
use this to press on a disc made
by microtechnic -

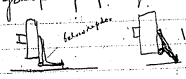
see how thin good sheets can
be made pressed =
possibly annealed in Hydrogen before
pressing on disc models -
after pressing put cement on it
with a backing to pull off -

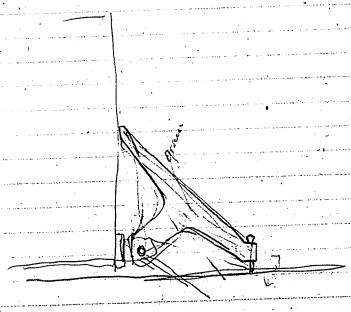
Get old Model disc to press
Tin + lead Spring - Cu Spring
Cu reduced from powder by
Hydrogen then Cu mixed with Tin
reduced by Zn or Al to bind it
or Pb -

Note to Walker - Helene
They say they are tired of phono
don't play it any more, ask to
let you ask it to find out what
the trouble is - see if little old
style horn, if not a speeded right
Reader bad, or what is trouble
if no your judgment it's good
Get them to let you leave an
order for some records 4 mo
Say you want see if can raise the
interest to some day Wednesday

Get first of the 300 C/O & the 500 that will be cut with & have somebody select for Walbersonne found one for his kept —

Can get spring by lengthen lever





How about a wooden dia holder no metal also wooden horn no metal at all except to secure together. Can be made easy & well be light = lead used for weights.

Bowl makers in Maine make cheap

Can pin & glue sections, be resonant

See Scheffel = How about clock work that were ordered for dope what can been done on them — How about Changes of frame were any frame of 1st style ordered

also increasing Center pin to 1/2 or 1 inch so we can get disc to run true & not break wrenches by drumhead Center —

Can Center be reamed by a 4 way points in last process

Can it be moulded in —

Scheffel make a square
how much stuff multiple
the speaker 1½ in near speaker
clamped in sections - use spacers
& design to Ruth & made by
a Carpenter Front Violin
Color - fit model in
1st Disc Exact Box

DEC 1 127 [illegible]

Galvanics - Make Oxyhydrog
for Concent
ditto Zinc oxide & chromic acid
Could cut film chromic acid over
flat Mastic + throw ZnO over &
press + let it harden
ditto Oleic acid + throw Dehydrate
Aluminum over.
Silicate Soda + throw over CaOH. or
quicklime,

Platinum pains. Coat Upon dehydrated
by heat 212 to 300 Fahr.
then dip Dehydrat, then Galvanized
antimony -
Mould & then soak in
Ammonium Borate,,

Sheet of steel .005 - lay on paper -
flat dish & pour Copper Sulfate
on till Steel will reduce
to Copper wash - then
put on record marks &
press - or lay the steel
on Nickel plate & reduce
& then lay disc marks
over & press.

Meakin's look up
Cuttings in 1858.9.
1898-1 for Moving Machine
also from other [illegible]
books, when first pamphlet
Dendrophis sold to Malpuna
+ Bachus, or other + shipped
to England - [illegible]
Newspaper Cuttings from
England - also look for
articles in Figaro

Somebody found Cement
thing a bag - also that
in Alcohol to get it
infinitely fine powder &
put on black varnish

Moulded Stucco Cabinet
for Umbrella performance
Sheet to shape + mould
for moulding stucco on

press cheap crystals in
1/2" moulds finely divided.
press, provided chemicals that
are mixed like $NaSO_4$ + $NaCl$.
Expect reaction on dress,
Early Sulphide, Ammonia + BaOH.
or Ba Caustic,
Silicate ~~Soda~~ Potash + perchlorate K

See Holland's Dessert Lately
of make 5 gm tail vrom 7 gm
so tools & papers -

Sulphide Ammonia + oxides of Zn Cd
Pb, Ba Sr, Not, Specs are to get
basic Sulfate -
Phosphate Ammonia,
Silicate " Sopidr
Borate "

try precip PbCl,
Silicate Soda, add PbO Sl
Melt it see lowest temp
Can get a glass, to soften -

perhaps Silicate Na very hot
dissolves water hydrated
Silica — Can be poured out
dess — K Silicates,

Silicate Na after evap of
high temp may be drawn into
threads need to be kept constantly
washing to prevent access
CO_2 CO_2 leads on an
decomp on it to Si
How would it do to pour
hot steams of Rosin over it
then decomp it + K or Na
from Glycerate K
Silica Alumina Carb Silica or
Sulfate lead lacquered
with Water glass lacquered
mass becomes glassy hardness
on exposure to air

Silicofluoride of K nearly
insol water

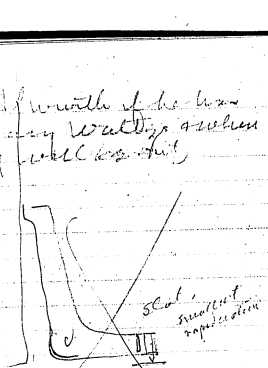
Dry Silicate Lime + ZnO,
precip SiO_2 + ZnO, pressed hot,
some K or Na OH in the precip
Silicate lime to bind ZnO,

Silica K Na pressed or liquified
lime carbonates etc to form double
silicates.

~~With Carbs Sulfate K or Carbs~~
~~Boro~~
Water Glass precip by alcohol
gives Gelatinous | K_2O & SiO_2
Thus cool water —
gives Can be pressed OK —
Moist or without a little water to
dissolve some + put to gether —
then dried

They have a Tow of K Silicate
at Silver Lake get some
Mind this expands by heat

See if worth of the horse used in Walking & when they walk [illegible]



Look at last highwals on ck Sylvia see if jumped out

Buchmann about getting smaller wheel for Horse Electric and standard small size see if Reckhardy has them

Reps

Archer drop the Bus over Chalm. had 3 at L. then 7 & 6 L. & now 1600 without pulling in 21K2 L. put in 21K1 L. 3 tubes

Drop 21K/2 L.
Drop 21K alone } 3 tubes Each

~~[illegible]~~

See Hunter about length A6 Trans see if we can get them as now

Try Premium record on big amplifier

After John Old got details put new double cut reproducer in Cumberland connect regular & Ryan record full length also several long records

Uncle Experiment Cheebrole Spike wooden lever doesn't lengthen

Sections about a Waterfall
Bone Wagon - auto only can
Make large fields 50/60 Edison
is nothing = Hawaii Islands
with horn & Lammenfield fuel
dates fines sheets long communicate
Res in Clouds, one Copper one Carbon
bunch to break - of fan on end
Hales Horn unknown

See Berliner & Jonah operation
& Scheffel Stagon —

Pierman 8/100 Cylinder
Light Reader hinge deep
Try Horn off records
Piano Sonic dictaphone

Operations on Neco Veneer Lacquer

Reaming 8 seconds.
Taking Entire out, 5 sec
Pour Lac 3 min.
Pour Moulan varnish 5 minutes.
Chill - 3 min -

Get dry piece of Fancy Cement
work & Knots, Fine work
Mere paint Geology Colo
metals ideas —

Over Catalogues have
best Song selling put
down, Deals - Etc

Run new 2 not Spoke full
length Cylinder on
Triumph 25 Time of
OK Sensual recorder
you do Not in Cumberlands
to see if fault is Cumberlands
or Stylus

Operations on Neco Veneer Lacquer

Talk Dyer Bros. that
Anderson cogs, at end Anderson
year if bottom not sold
in good order we will
label it & put back,
and Anderson to not charge
for bottling but yours to agt
the 20% take the bottle
Tell A. give 1/2 back going to
do it. Also that he should
give more room for bottling
to take care of future
mushroom mold & warm
Barley.

Buchanan bros since run
horse electric mulching the
snow & brake shoes &
some grades might run
before snow goes —
Ask if he could find us
larger Realtor —

Schaffel How about the
Ball around the reproducer

Change the bad crack in
wood funnel —

Make desc Sphr weight 1 1/2 oz
but so can be loaded up to
3 1/2 seconds and - run curve of
hardest pressure after yellowing -
best chin on Model 3 1/2

Goodwin Where will
Stays be put -

See Dyer - Dalbar + Hy Jobbers
speak of how they are to
get their own recorder brake
say to pure jobber that all dealers
will not send 10% brake might along
as they will not have them,
it does seems there was wide
help them out but to Dealers jobber
Ritual Sales + Houghton Dealers
help them out brake

Archer Collect old
Cups to show def number
Makes fragments stick —

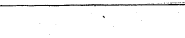
Make old long rem tubes
boil in alcoholic KOH, long
time, then wash out, then
[illegible] other trials 1/2%
H_2SO_4 for few mins —
1% 2% — def length time

for disc rec — Silicate and hyd
very fine, dry then dampened with
conc Barium hydroxide solution of K or NaOH
+ pressed that this contra white ppt to
be unaffected by water as $BaCO_3$
will be carbonated + fill pores even
if Si hydrate is slightly soluble —

Speak to Mum to duplicate
the dropping tested washing
+ use strainer and oil also bring
also more shellac

also Ivory celluloid built up
same way
also 4 in more than round thin

also



Ask Bliss of I can measure
speed of motor by hammering fines
+ what is loss by hysteresis as
speed measure,

Photone bleeding fuse —

Karel Boardman Pioneer
54 Morningside Ave E

Patent - Printing film optically
Printing Music, Projecting Music
New Tray Gutter - Telroasphalt
Varnish. Impact on Ni hydroxy for
S.B., Long drying -
Melted and B. OH to precip Ni -
Spinning, Telroloc, backed up
Clothing Lac, resin -
Ball on Spokes Confirm Spokes Sounds
Left of Horn movement.
Key for holding records
Wooden Spoker arm -

Try NaOH) much dried reg lime
but in presence of free NaOH +
some organic matter or several
kinds to make NaOH slightly
soluble, to permit Cupralign +
Lockering Lozenges, Telroloc or
Tartaric, glycerine KCy
Smell of prussic.

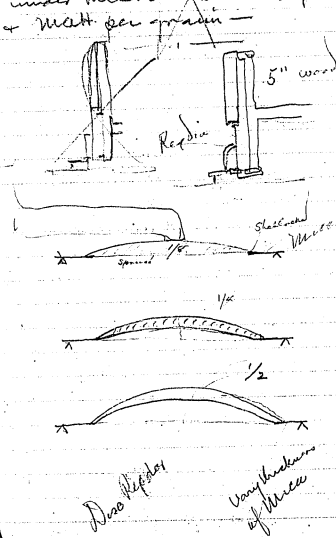
Plaster and base of pianos
meant to horn

Take 1730 tubes out of crate
+ soak ~~[illegible]~~ put on tack.
mark how made the one that is put up

Goldstein. Reg NaOH, with minimum
chlorine + 3 grades between of
Excess KOH + 1 box each day
12 to 14 days. (c) Take dry
1/4 hole -
Also Reg NaOH usual NaOH
+ 3 boxes 1/4 Hole 2 1/4
holes 4 1/4 holes -
take each out when dry
also the Key + Organic matter
got from Dwel the Guelph Company
that makes KOH sol in KOH
Try some of that -

Try that Carbon telephone
I made for recording
put Anderson on it

Look at 5003 groups under micro — see weights + Matt. per grain —



follow up the 42% = to double 21 = Eco Pbo about double checking + 2 new sign dropping Tag — doo test man reasons note for Cells without leaving =

New Idea - Ground Borax acid + oxide lead + other ideas use press on dro a mixture 9. he mt To Cause Combn / Little Sulphur + Zn powder, he and g.e.

Rate Submarine battery at one hour discharg rate

Charge an auto fill at 7 pm, get temp up above 70, then close box tightly, no cracks let it stand and doors off, drop of temperature

Take away backing from Daphne Chuck wad of Record material is cause of streaks 1/2 way round on Sonora record

Have new model backed off at Daphne so can calculate wax

Talk Dyer about Hudson Running battery with Rhail Supt & getting another man for Stow lake Hudson Running Islands from Battery Co —

Go down Phono Works look at Lauraden battery box for leaks —

Look at Lauraden Motor
ditto motor on Studebaker
Anderson & BAILEY

Premium
for deep cracking case those
Daft Rylander Rylander
dent —

Premium — also Reg Cylinder
heated to soften, platform were
just after the ball - balls 1/8" in drums
platform were extending 1/4 to 1/2
away round the spindle & as close
as possible. — also follower heated by
[illegible] or platform heated by [illegible]
or from [illegible] platform

Hallam to go Elcoln E.S.B. to
is boss of the testing of balls
over at works — He was full
[illegible] when they carried
out,

Goldstein purely divorced Copper
& Sulphuric oxide —

Write Mason what became of his chief draftsman
ask Hartlin about —
Ask Weber if he has an A1 foreman & knows of one
Ask Fred Shelby if he knows of 1st class ~~Norden~~ draftsman

57 Long test sets 6 each greatest average difference from highest to lowest to 136 max —

Look up see if I have increased weight of things with the Smith falling of ok Have Smith do at the big machine & make some tubes & of ok Enough for 2 test cells full size

Ask why all the anodes go to — 4 to month 36 lbs
Such don't check up —
get from VM all nickel metallic sent up for year & check them up with cells & look out know

Christmas dip canvas in Talva dope make a bag of it + put in 21 ½ lb. + see how long it lasts hung up — see amount dope per sq ft of thick canvas —

Figure out cost of Canvas Covers so we can sell to mfrs for winter use —

Ask Flake man how about painting now work now Cream & old pottle Talva dope —

Ask How hour-glass works.

Put L Oil on ink to go on new record, burn

W E Atherton Pittsfield
Engineer of Equipment
6980 Cortland —

Quad

Get from Legal dept patent on Reel for Quad + Have L Oil set up

Patent Copper pole pieces triple nickeled + annealed for Submarine

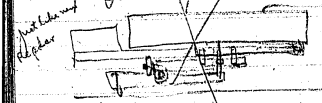
Patent details fastening plates, Etc,

see Bliss for 1 turn armature Cambric made,

Fred Ott made Composite smooth face record for Patil & have a hum piece (not reamed)

Design Johnson

Rigid fixed to frame



Weekly Rept disc Record made by Miller also read & punched W. with ditto reed Glenn Ridge

Brinley plate Nickel 1/2 thousands sheets for disc

Check up Nickel 1/2 thousandth with Sidy & K that the S.O. will stick to it & it will leave moved

Have Bliss go over the work in hand — get a complete list of work in hand make Coding, Meanwell off Keep account, See what get time to do — first of all Engineering job now in progress & those wanted

Enter into book Kept by Bliss Mann & checks off Meanwell keep the posts weekly

Take old Howard rig up
internal buffing gathered see
can beef moves without
working fingers — do
spun records not stick —

Mendenhall get Curran
book & stand. Curran book
year & this all Co. orders
can't tele
pay rolls & bills paid 3 Curran
& individual orders order shipments

Fred Oll spun a 4 inch Mordam
with Ogleton see if its
stand more dropping
on table then without
Mordam — try paper
fibre —

Dyer — How get survey Industrial
people in 2 or 3 immediately
& on any patent possible to
put them to operations
& agency —

See Legal Dept in re segment worm
feed on desc make my old
English put fibre later desc
patents —

See if can Hardin the feed
segment to funnel near the
end to get rid of spring —
make better feed —

Ask Smith details Green done
with the 4 feed mechanism —

Rogers in Engineering dept
for battery.

Divide, Engineering dept into
Battery - Plants & Storage
Motors, rectifiers,
Kinetograph
phonograph
Miscellaneous
Other depts Engr + 1 or 2 draftsmen
& chief power man

When Fred & Polly got
record OK - make 6 heads
& other devices & mfr

Edgar told Wendell
Lauridsen meet in Boston
NG - He ordered Grand
Electric 3 Trix -

Lauridsen send arrange
Catalogue all Lighting
Stations - Crosley DC
Station got several
Trucks -

Specs for
Irradiation Electrical Theory
& problems of Universe
by Jungkemann London
Griffin & Co 1912, just out

Don't forget Kisselghur

Archer make - 4 1/4 Liber
with Reg flake 12 1/2 Bro
621 green -

Cut at 5 Bat flake
20 25 30 40 & 50 %
less area for small
tube Ingots -

Bliss - Canvas small meadow
lack economy. No log get him
to go high on mows hence
6 poles batter him 4 & better -
still only least speed unexplained.

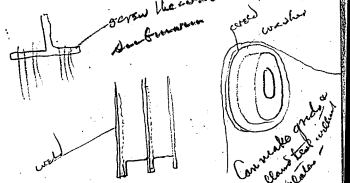
Find out from Al Wyeth how
long since he got Meadow
from Wallace Miller he can
have Matrix - unexplained

Boston man ordered baby
coated week wrote
debut answer 3 days
then said do not cover
waited month -
Cancelled order
but found does not show
Whole name Hart -

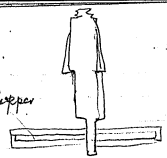
Repair system at works 1
man - Keep log book -
Bee complains delay filling collars

Get Dyer cutting from Jim
Company -

The Rubber bulbs for top
battery not elastic enough
to suck - Too soft rubber



Layout for 100 cells. ordered
of 204 -



Make out last shape for McCoy

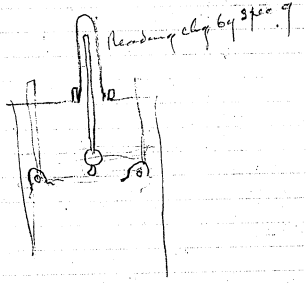
Cost 1000 tons 1 mile

Coal	.1862
Water	.0076
Oil	.0026
Repairs	.1087
Renewals	.0033
Eng House	.0268
Engr + Fireman	.0928
supplies	.0025
	.4297

.429 of 1 mill

Dyer about buying the gas indicator for Gallery #

Rubber sponge or glass to wipe Roll off top of cells in place of the Rubber one -



get Werrell Graham 2 Violin flute Clarionet, Viola possibly cornet -
perhaps Proctor Orchestra
830 Tell 12

Nernst burner in place of flame for phono, dulls platinum

Play No 2 bass slow & quick learning records on No 2 Reader

Try No 2 on Triumph to see if loosens in embrasure

Cut a to call in No 1 & see if make the speaker –

Bias – dispense with type writer, if can't anything done get it done by H Miller –

Run of disc material roll out water cylinder shape to press

Squent what dies –

Try Paul Schoenhend & Shellac

Q WA How you tried Dr Lachlan Hopkins Compds from distillery Dr Lachlan Hopkins No 320 Distills for above Gauny Pt of Arg – undecomposed

Methylene acetate volumetrical
added gives off formaldehyde

Put Dally on perfectly
the walls fetter it
slope over it Itself is
poor —

Put loud record on
gramophone - + map out
by ear areas of
Equal loudness -
to get a line on
predicting the sounds
of orchestra

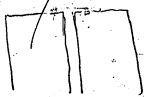
perhaps its the side
throw of the belt a coarse
centers that moves
off the top of the walls
by a quick side movement

Have 1/2 day records
spoil not learned
Fred gave out Cold

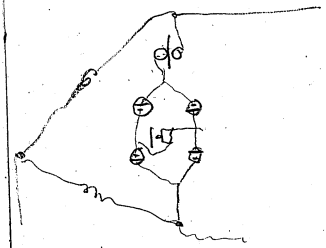
Have pictures been
taken out on little
film itself —
also optical
pyrometer & all
other details

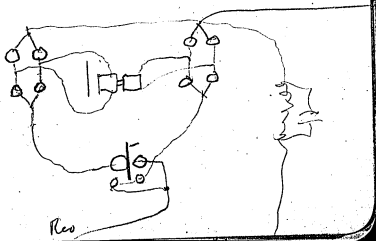
See if threads are not
Drunken on floor - or not
Kept up to one face of fast nut
or End thread centrine -
or records not reamed
Central so it wabbles
records one end out one way
other end the opposite

Set up speaker at an
angle to fall in direction
of motion, not a little
to give it a bias -



Return the US Condensers parts
at House -





Chalk Telefone, I now remember we wet the Chalk before pressing
Try chalk wet with ROH
Also (18) $SrCO_3$ – also try
washing with Hg
which we used, never
heard it as hard as it
needs — also $SrCO_3$ + a/c of
Cobbold. Try infusorial earth
+ acid washed ROH.

Devices
Get for me Author + Matter
by Larmor
also Mayo pleasure nature by Huxley

If don't get the spots on Triumph
get in paper make second
Run out
Also an old ~~[illegible]~~ [illegible] with
ROH thread to guy it [illegible] speed

Scull – Pantheon out. offer on
one side not both sides, one
room for prowler, all other open

Stop Copper salts going on
Condenser — is also dissolved
need — Coloring in flake
dissolving on floors
What are old cases full
plates + ROH doing on floor
Send plates in ~~[illegible]~~ to Lake.

Quote Get Dolan's source scrap
sheet lead to dissolve
+ Eliminate Copper
Chemistry

Mike McCoy's lead out

Scull
6 men pushing out
office

McCoy
Sloan & Chase
Crocker & Crocker
Sprague Co
Wesley Corner at Newark
Hoza & Co
Winchester Arms Co
Garvin Machine Co
Bliss Co
Plainfield 2 Concerns
Weston Co.

See if have extra Walker for disc to put up as trial model

Bliss 3 Concerns
with Rec in Delaware
Lackawanna

Premium play hard pears
record on air —
for flame or disc

Fisher design a wholetone
of small cells down to 1 tube —
also for running lamps

Experiment on sound Regulator

Weber to give Fred with a man
who is to learn the new process

Order Drip of Petals Coating
Machine —

Order, 6 - Hydraulic
presses + repairs —

Order Moulds for use on
spinning Eugolds' Mould
of Montana or small aperture
Dorhaor it

See Weber about giving me a model Capacitor to fit my circuits.

	gutsden			
638	500 g	Nitrogen Lab.	7243	14 days
637	520 g	" "	7560	21 days
634	530 g	" "	7896	27 days

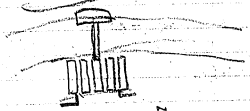
Stanley Dawson

Bring down the US Gets Condenser Co -

Have 3 patents Electrolytic & Lac also Dendrostatical -

Patent Compositor record

Dyes = Copies of Bakeland patents to Brandow + have my and mann to French Gail coffee & get other from to impregnated board patents -



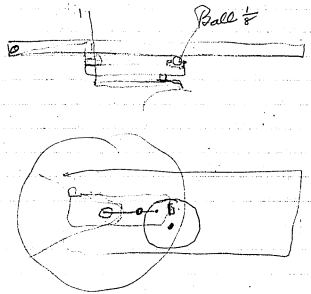
Dyes -
Volatile spring mud dont stay d

Start man finding Selenid for Copper for flake.
Try Cyanamide - Hydrometholenetetramine

Goldstein Make source 1/2 1 1 1/2 2 3 5 to regular drum also add to Hole drum 3 or 5 %.

Angels serenade, over the hills to the poor house
✓ Swanee River — Robin Adair
✓ Old Folks at Home — Coming Through the Rye ✓
✓ Home Sweet Home — Old Black Joe
✓ Wait Mingus — Nellie Gray
✓ Ava Maria — Warm in the Cold Cold Ground
Tenting Tonight — Where do my wonder boy tonight ✓
Rosary — Nearer Thee
My Sambo, I have sighted from Travelers
Cunnyslaw Tannahaus, Lady Fair
Go over see the boys in Crook
for film playing — get one
Exeunt!

J Collins Clancy
Cyanamide —
gold — Read before
Quick — Electrocution see
when the swallows homeward fly
Listen to the Mocking Bird
Last Rose of Summer
Kathleen Mavourneen
Juniata — Hunts Bowers Down



Goldstein Ow in B.S. —
Careful —

~~Dyer — about Cronin —
also working up film trade
in all Columbia ~~

Hurry up boating not tends a round
Reg to Silver Lake,

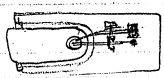
Songs Come back to Erin
Darling Nelly Gray
Goodnight - Farewell -
Heart Bowed down -
How Far art thou
I cannot sing the old songs
Kilflarney
Kathleen Mavourneen
Life on the Ocean deep
Oh Fair Dove O Fair Dove
Some day - good -
Angels Serenade by Braga

as soon as Brenley gets a
vacant on plating - get a dress
field sizes - make a lead a reason
a pattern the several ways of
plating & removing -

Wun qua Kellyprees
Masks into tubs have a
bad back they cannot
correct it,

Shave off some Moulan 4
min just a little see if
all run out same or if
Have all something in
Common -

See Weber about
Changing top of Cabinet



Put this in

In No 1 put in 8 4 6 + 10 Ohm

See How many tubes boy can do per day also other boy in putting up cells + put it in chg of small lead room. Man he lik ah aftan I + hustle tubes through 5 can send Looking Kept to a Group

Ask if Hard Rubber parts were reused several months ago + if they now have been reduced —

Cost 100 cells
production 1400 weekly

	Material	Labor	Misc	Labor+material
Metal parts in rough	40.95	194 52		235 44
Rubber parts	77 79	8.08		85 87
Flake labor 50/56 lb				
50 lbs 1.19 cts	59.50	25.13		84.66
Nickel hydrox 55 lb	159 58	.70		160 28
Iron Mix	89 31	0		89 31
Nickel Plating	1.53	11.83		13 36
Trayo labor 18		12.09		
Sundry " 9.56				
300 5 1" wood screw		.09		
Water		.15		
Dry Lithia 13 1/2 Kilo 96 1/4 c		12 75		
140 Litia 21 KOH +		11 20		36 28
50 gm LiOH. at 08				06
100 256 1/4 mac screw				
	465.00	250 00		715.00

General Expense per cell —

	Labor	Material
Rent $7240.00		.10
Electric Ct 21000 KWH		.39
Water gas steam		11
Foremen 10	.20	
Watchman, sweeper, Elevator		
general repair gang	.15	
Inspectors 38 men	.33	
Factory supplies, oil waste, benzine, screws, drills, emery wheels, crucible + lab chemicals		.19

Carried forward		
Repairs, replacements to plant + equipment 35 — 83.	.45	
Repairs, replacements, materials machinery + tool steel, casting, setting, pipe fittings, elec supplies		.08
Executive + Engineering offices + Sales Dept Salaries	.48	
Executive + Engg offices sales dept supplies + Expenses		.16
	1.61	1.03.

Total 2.64
Lab & M 7.15
9.79

Weber - make up records
no rebo - ditto Lore from hacker
cold record to Chuck Cake (Fred) all

See Grove tell him about Backland
electrical Heat is yes: Lat + Chas
factals in office look of he how
supplied for his factal if not to
rush it,

~~Have men try 2½ oz Dia~~
~~ditto 2 oz ditto 1¾ oz~~
~~ditto 1½ oz = to see Limit~~
~~in Case wgh bad +~~

3 03 drag

Try press Lead on record
then harden with Sulphur
Try Tin + oxidize by chemo
+ Oxygen dry

Try slaked lime pressed on record then treat with Na_2SiO_3

Make a jelly of Portland Cement decant & filter out jelly put on record to set.

See if Dry hydrated Silica & dry slaked lime pressed in hydrate will combine, if not try heat, ditto Silica & Al_2O_3 hydrate.

Edison - works out patent. $Mn(OH)_2$ slow drying - with all stuff in some can be sealed out not necessary
Ditto 1% Cobalt,

Legal dept come up &
study over model
discs

Try Hydrofluoric for mica Cement, Try Water glass.

Try tra[illegible]ength, Try hot KOH - NaOH, phosphoric acid

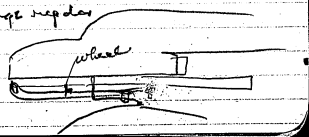
Try Celluloid 6 6 6 use acetone & acetic amyl to put together roughly -

Find out when Solution got the deep dishes to Check when good capacity tubes started

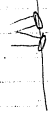
Try some of Bally's moulds Cracks shrunk out def ways for running true. Try chill out quick - also one end only chilled then the other

Get a mould & Experiment up stairs to bring out a true record

Change sapphire



Set the angle of the button different by both wings possibly angle makes it climb

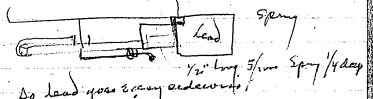


Try some 70 Records not graduated possibly it slips over -

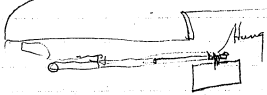
~~Webber how do you know the reamer is true with the mould - every one runs out [illegible]~~

~~Mendocroft pick me out 3 sentimental songs each of each of our singers oldest guess you also Select want to judge of these voices -~~

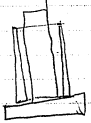
Check Dolly little levers Extra -



So lever goes easy sidewards



So easy sidemovement



See if this in warm place will heat up

Try hardest cullanderend need bound
proper - build up like mian —
Sylne or Sevalana,

In pressing Compositio seconds
get better than 150 so outside
surface be welded + nail
flake off : also to reflow
Ultatan so it will not (or)
shrinkage when not finish
nuff & thus require it -
Cause of Cracking of made
Cylinder think still Contract
too much not well handing
40% Chalk think paper
fibre or Cotton flock 5%
Better -

Try Lampblock in Ultralac
see if get it black & finest no
good

Gunshown about a lighter
wagon - Simple sight

Buy a buggy - fit it up for 6 months
+ 150 Records, oilcloth covers

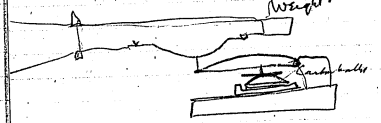
Breakers - get medical chaos +
Crime by Baumsby

Goldstein Try make Kg dope
in iron pot,

Weber = Wedded streaks -
Letters product Contractions -
inner thread wrong
one shaved to on end
if about been to crack round when almost on
Chillers in reason
Mould spoil in making not
round Calliper done -
put smooth pad in 4 more to
see if lettering holds -
ask do wheelbones the loads
running more from window

Watts Miller Walter piccolo
or flute, broken up in action
leg along high notes, try
lower out three high notes
instrumental in accompaniments

Dyer, Saunders built a 5 ton truck not well liked only orders were given only to build 1 & 2 ton — did he build 4 on orders



Take some Reg green ready to load, dry it 2 & 4 6 & 10 days then make test tubes 180 about on Kemper Lamp used by Goldstein

R Abrogast let 2013, pans dry wise chatenes test

Goldstein patent No 520 of which 10 is 1/10th equivalent dry one half

Edison drawing of patent 2 Recorder on disc

each recorder has 75 & they are made by side

Two rooms, seperated, but Wagner see through door, seperate funnels for each recorder. Base & strong music played to one recorder & strength & weak instruments to the other — both records reproduced by 2 Reproducers & funnel — This prevents strong instruments from disturbing the weak ones

Draw out Cabinet, Converter

Put up 3 Bu Cells
run 3 times Reg
put on half 6 Cells
then test & so on
& times push to
see if working
improves

Looking Clancy advt
in Elec Chemicals
& wants him to answer
me —

Clancy Process
address:
Moots Filter Co
170 Broadway
NY

Blue Gas
Sal
Ferrot Chemical mfg Lucamblock
with Tetra Chem Lac
& see if ~~Oil~~ ~~or~~ Mr Allen cabon
see if any of Mr Allen's digs cabon Tetra

Digs smooth to give me
a list of appliances on
Disc Sustained Ele

See if film of Wa stuff from
Leguna well performed and
Mountain be demanded —
Petit pressure

Tell Lee Mi or Leat or
Carbon Electrodes & al.
in Quad

Walter Mitchi & Worth
our records should start with
March on the smooth place

found when RA - slow dry samples
got to Lab -

Silver Lake Office -

Manager,	125
Chemist	200
Bookeeper	88
Asst Bookeeper	56
Asst " "	64
1 Boy	16
Asst Chemist	88
Asst "	64
Assist "	28
Assist "	32
	761

86 men

5 men in Office -

analyzer Na - KOH.
Lost now
Sampler -

1 Foreman works	75
1 assist works -	75
1 "	75
1 "	68
1 Machinist	80
1 pipefitter	78
1 Carpenter	104
1 Watchman	55
1 Engineer	55
1 Eng	60
1 fireman	52
1 "	52

86
31
55

1 Truckman	52
1 Storeroom shipping	80
1 " Boy -	26
1 Helper for pipefitter	64
1 Helper to Machinist	52
1 Repairman nights	62
1 yardman,	65
1 " helpers	42
1 " "	42
1 "	39
1 "	39
1 "	39

30 - non producers 602
56 producers - 761
829
2192, month
160
2292

Dryfirmum

1974 now
2494 Producers

44% unemployed

9

Monthly output ...

Ni Oxd	14 1/4	Tons
Zn Oxd.	12	Tons
Solid.	4	Tons
Anodes	8	Tons
	38 1/4	

Battery Pay Roll January 21 –

		men
Ex + Engg offs + sale dept	1490	63
Mfg	4945	439
Tool.	1010	58
Testing -	229	19
Miscellaneous	353	22
	8029	601
S Lake	1117	86
Lab	2499 -	118

Have Dally ~~[illegible]~~ go over + see if they have the old water separating plant or machine not used if so bring over + set up to separate S Lake from Cobalt + Iron

When Washers ready
Have Smith make 1/4 holes
to test with the 1 Hole 14
day green - Several test
Cells for long Endurance
test =

Have Goldstein make
large batch of 1 Hole
14 day green for
A & Cells for Smith's Washers

2 tubes Reg No after boiling
Soak K Hypochlorite
4 days

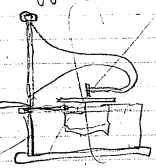
Dup 671 Goldstein

See if Gary got the dried
Wood + also heated tubes
in

Call Walter Miller
Attention to the jump outs
on low record of moved
water forced in about tube
OK Evan

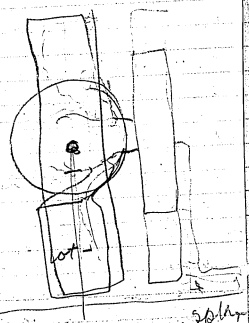
Bring up the acid
Mercia

See Wind if she knows
anybody who swings by
water off hand =



Rod - Chang Washer

Iron $LiCO_3$ last 3 weeks



fence prevent pop spills
on slowing molds

Experiment with dropped
a bright cell with
Warm water spot rate
Cooling

175. grams Total dope
A4 cell tray + all

Saturday NOY model
best —

Add to the proposed
Bulley Adv
If you are dissatisfied
with the [illegible] of your
Electric [illegible] Etc etc

get list of Waverly
Buker business
Vehicles having
Leased Cars &
go for owners to
Change to ours

Design a new uniform
format for reader with
heavy list on center -

See if Reader runs on
smooth & not towards
rear of Costers are
made shorter on left
side -
possibly can tilt Machine back

Ask Bas how may Electric
Sloane & Co have & how
have better there

Put No of Model on
Grand phone model -
Later No & Number less now
Punched reinforcing check
for Cabinet

clock not removed
is in market -

Dip thick all over the
Copper dish with both
Kinds of Condensate
dry at 212 lamp
then put 24 & try in
clean sulfate Cu 3 d
125 for plating over

1 mch Column $2.50 –
average –
Add abt 4" — $1.10 mscellan

Sat Eve post $.84 mch once

Mummery $.31 mch once
R of R $.16 mch — better than Mum
Life $.14 mch

get drum for Bal
Co, Coat, condensate.

~~Brady get 1/16" sheet rubber for splsrs~~

Put up 2 Cells + put fresh
precipitated NiOH in 2 pots
to take care of Si + Al_2O_3

Double dip –
Dip a battery Can in
Condensate + dry 24 hours
then put in a Cake at 240
to Condense, –

What become of Carbonized
Moulds for Cakes

Scull – see that the 50 cells
ruined from repairs are
paid for at our fault

See about dies for Crates

see condition of Alloys
for Tetradip – hurry them up

See Brady about flock

see if brown or red charcoal
is attacked KOH first
Could preliminary wash
dip in Condensate + rinse in Battery

For Surface Rubber in Battery
Powdered Coke very fine in
Condensers as binder-dried
slowly & then heated,
better Charcoal used or
~~Graphite~~ Sugar Carbon
not carried far enough to
conduct, also MgO.

Chlorine ~~Make 15 gram~~
~~NaOH dry in hydrat for~~
~~lost in Tube~~

Patent new opts - wooden
arm - (think got this) and
Celluloid - 1/16 to 1/8
Uncle - Zinc Celluloid -
Patent Soldering funnel by
mudge -
Patent Cooling device -
Removable back to Horn -
Universal joint on opts

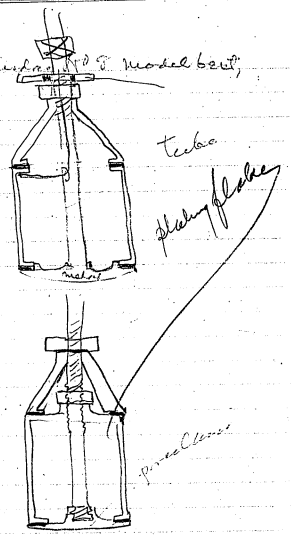
friction on Horn
Weight for screw feed adjustable -
Closed front - Handle &
lock to handle -

Patent
Small reach - Swing funnel
& feed, left,

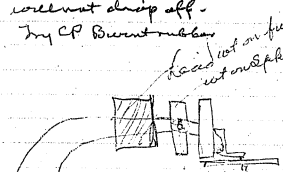
Old tubes to regenerate back
in Salts which tends to form
double salts with Fe. Al_2O_3
Si etc & not Ni -

Did RA ever reduce a whole
Fe plate, if not have ~~Fe~~ a
dozen reduced & put up
in a cell, V

Mix taken with Condensate
Liquid of Sol Fog also
Lac & Carbonate in it



Put Tetraalcope on burner then
will not drop off.
Try CP Burnt rubber



Put polished
Wood 60 41 bottle
see format

Greenly get old Crock + drum
App + let up to Experimental
with new drum — also Condensah
+ process so sheets never stick
also a sectional Cylinder rubber
jacket, for trial —

Write or see Walter Mullen
about side motions,
Study side motion on new
Mulns records +

Tell Mann to Cut out from
1/16 sheet Ring for 4" Reels,
Also see if Eng. ordered
1/16 solid rubber from Combs
Rubber Co —

Greenly try Expt of graphite
on drum, coated dope + graphite
Cu on + then going ahead
depositing flake sheet
~~[illegible]~~

Ram use a metal drum a shiek
1/4 wide removes wax to get contact
with,

Tell Bradum about
Asphalting over concrete in
flake plant, Reg Asphaltum
do it,

Record the 2 bad notes
on Wax dark record
+ see if Cant detect
bad spots in the Extra
Round and what it is
on use white wax +
graphite it —

Removably Consider thin
drums, dopes, use de Condensate

Smoke a part of record
+ see if it cracked or
Try Chl Eth vapors
also paint over with
Negrosin in alcohol or
Aniline Red —

Roll a splint of Cake
Iron rolls see if it lengthens
also if separates — also if
it separates with Solution
Could plate lurce on thinket +
Roll out to lurce length —

Get new Book

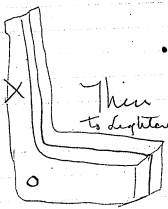
Write abt differential —

Pierman record Melas
on white wax + graphite
for record — Strong + also

Wetter Wells Make 10"
also 12 inch cracked but
no sound for lab blank —

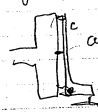
put link or Kupferlack
between wood core
& diaphr as cement
Can up to bottom of
Blond drawers +
get table dos record
level up Case —

Omnibupum Molar. Lampblack
alcohol tick very fine add aniline
Violet for leaking dives —
Try $Sr CO_3$ also —



Then it so as
to depletion but in
way shown

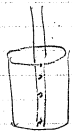
also make Scrawl + weakend
X to get spring there



also this
Throw comes in C

Try Alcohol Shellac Lampblack
" Rosin " "
" Violet + Lac —

Scrawa strip on drum



Then cut on
strip —

[ITEM FOUND IN BOOK]

SB Oct

Cost cell (A4) L+M & face Expense	10 410
Selling, shipping & free goods	1 185 60
Admy	1 326 40
Administration & Genl Ex	607 40
Rent Taxes & Ins	108 7.20
Bond interest	401 27.00
Cash Dis	132 8.00
	14.169
Received for sales	11 180
Loss —	3.00

Cells sold 6225 ½

Total loss 18 676 50

Addition to plant 7.262 47

See about another place to rent from Lumsden, Dudwr Bell Barco fac Newark & Dyer of the Sain Adam Ex & Genl Elec

[ITEM FOUND IN BOOK]

[ON BACK OF PRECEDING PAGE]

Meadowcraft - go out to Leggat
& hunt around for very old
books containing songs, rimes, musical
music - pub in any language
dist & periods

Meadowcraft Analyze Office
Expenses all the factories
also production & non production
Sales dept - Expenses to sales

Get Office payroll &
works payroll S B Co.

Lets hear from Ackerman & Gross

Get a machine for
Al Wurth to test
masters on

[ITEM FOUND IN BOOK]

Edison - Sketch out
#35. machine Horseless
carriage horse motor
outside of in Corner -
E do it roughly -

See Progress for Subway
(1C) see Holland bee of OK
to make tools also
have plates put in to
see if OK -

Start

If you could copy take carriage and
Electric Vehicle Inventing the
Edison storage for To drive it
This battery ~~[illegible]~~ is
more than the ordinary lead
battery but the life is several
times greater and therefore much change
in the end, it requires less attention
and gives twice the mileage
For Calculations address
ESB Co - Orange N.J.

[ITEM FOUND IN BOOK]

[ON BACK OF PRECEDING PAGE]

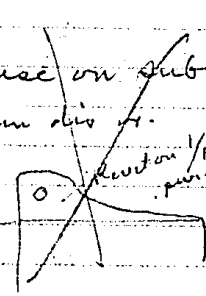
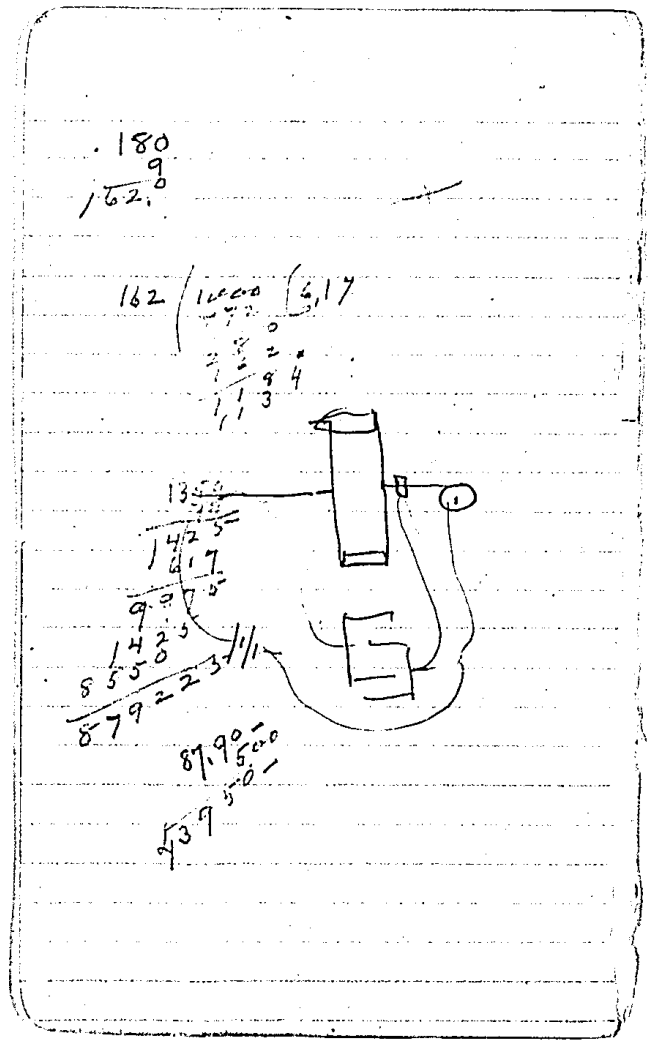
Dyer, Cromelin - England

G V M - We could spare the Glasomelar at Battery works

Instead burning Dry Charcoal also Cotton gas & fire. Spongy Cork

Show me Cheap the advt & get prices, N.Y. CH Boston Rochester, Cleveland Detroit Denver Los Angeles San Francisco Seattle Buffalo Canada Washington...

Hutch - fuse on submarine Cell to 15 mm dia x 30 mm



[ITEM FOUND IN BOOK]